

פיתוח מערכות תוכנה מבוססות

Java

תפקידים בצוות XP

אוהד ברזילי

The customer role

*The people in the Customer role choose what will deliver **business value**, choose what to do **first** and what to defer, and define the **tests** to show that the system does what it needs to.*

The programmer role

- *The people in the Programmer role **analyze, design, test, program, and integrate** the system.*

- *The programmers estimate the **difficulty** of all stories, and **track** the pace at which they can deliver stories to the customer.*

מקומם של תפקידים קלאסיים בצוות XP

אנו מנסים לצמצם ככל הניתן שלבים בתהליך הפיתוח

Testers

עוזרים ללקוח ■

Interaction Designers

עוזרים ללקוח ■

Architects

עזרה בשכתובים גדולים ■

כתיבת tests להמחשת נחיצות ■

הפרדה של המערכת למודולים (תוך כדי פיתוח!) ■

Technical Writers

משוב מהלקוחות ומהמשתמשים ■

The manager role

- *The person in the management role **brings** the customer and developers **together** and helps them **meld** into a smoothly operating team.*

- *You (the manager) don't do the process — you make the process smoother.*

מנהלים בצוות XP

□ Project Managers

- facilitate **communication** inside the team and coordinate communication with customers, suppliers, and the rest of the organization
- Project managers act as team **historians**, reminding the team how much progress it has made

□ Product Managers

- product managers write **stories**, pick themes and stories in the quarterly cycle, pick stories in the weekly cycle, and **answer questions** as implementation uncovers under-specified areas of stories

□ Executives

- Executives provide an XP team with **courage, confidence, and accountability**. The strength of an XP team, shared progress toward shared goals, can also be a weakness.
- Another job for executives **sponsoring** or overseeing XP teams is monitoring, encouraging, and facilitating improvement.

תפקידים בצוות במסגרת הקורס

- אנו מגדירים כאן תפקידים שונים בצוות XP
- חלוקת התפקידים לאנשי הצוות מבוססת על גודל הצוות ועומס התפקיד
- רוב התפקידים הם "תפקידי רחב" ויש לבצע אותם במקביל למשימות פיתוח
- מבוסס על:

A Framework for Teaching Software Development Methods /
by Yael Dubinsky and Orit Hazzan

Computer Science Education Vol. 15, No. 4, pp. 275 – 296

תפקידים בצוות במסגרת הקורס

Leading Group

- Coach
 - **Coordinates and solves group problems**, checks the web forum and responds on a daily basis, leads some development sessions.

- Tracker
 - Manages the group diary, **measures group progress** with respect to the estimations and test scores, manages and updates the boards.

- Methodologist
 - Learns the software development method applied in the course and guides the software process when required, guides and supports the other team members with their role.

תפקידים בצוות במסגרת הקורס

Customer Group

- Customer
 - Tells customer **stories**, makes **decisions** pertaining to each iteration, provides **feedback**, defines and develops acceptance tests.

- Acceptance tester
 - Works with the customer to define and develop acceptance tests, learns the topic of test-driven development and instructs it to the other team members.

תפקידים בצוות במסגרת הקורס

Maintenance Group

- Presenter
 - Plans, organizes and presents version presentations, demos, and time schedule allocations.

- Documenter
 - Plans, organizes and presents the project documentation: process documentation, user guide, and installation instructions.

- Installer
 - Plans and develops an automated installation kit, supports and instructs other teammates as to the appropriate way to develop software for easy and correct installation.

תפקידים בצוות במסגרת הקורס

Code Group

- **Designer**
 - Maintains current design, works to simplify design, searches for locations in the software that need refactoring and ensures proper execution of such.

- **Code reviewer**
 - Establishes and refines group code standards, searches for development tools that can help the team, guides pair programming, guides and supports in the maintaining of the code standards and tools.

תפקידים בצוות במסגרת הקורס

Code Group

- **Unit tester**
 - Learns about unit testing, establishes an automated test suite, guides and supports other team members in the development of unit tests.

- **Integrator**
 - Establishes an integration environment including source control, publishes rules pertaining to the addition of new code using the test suite, guides and supports other teammates in the integration task.